

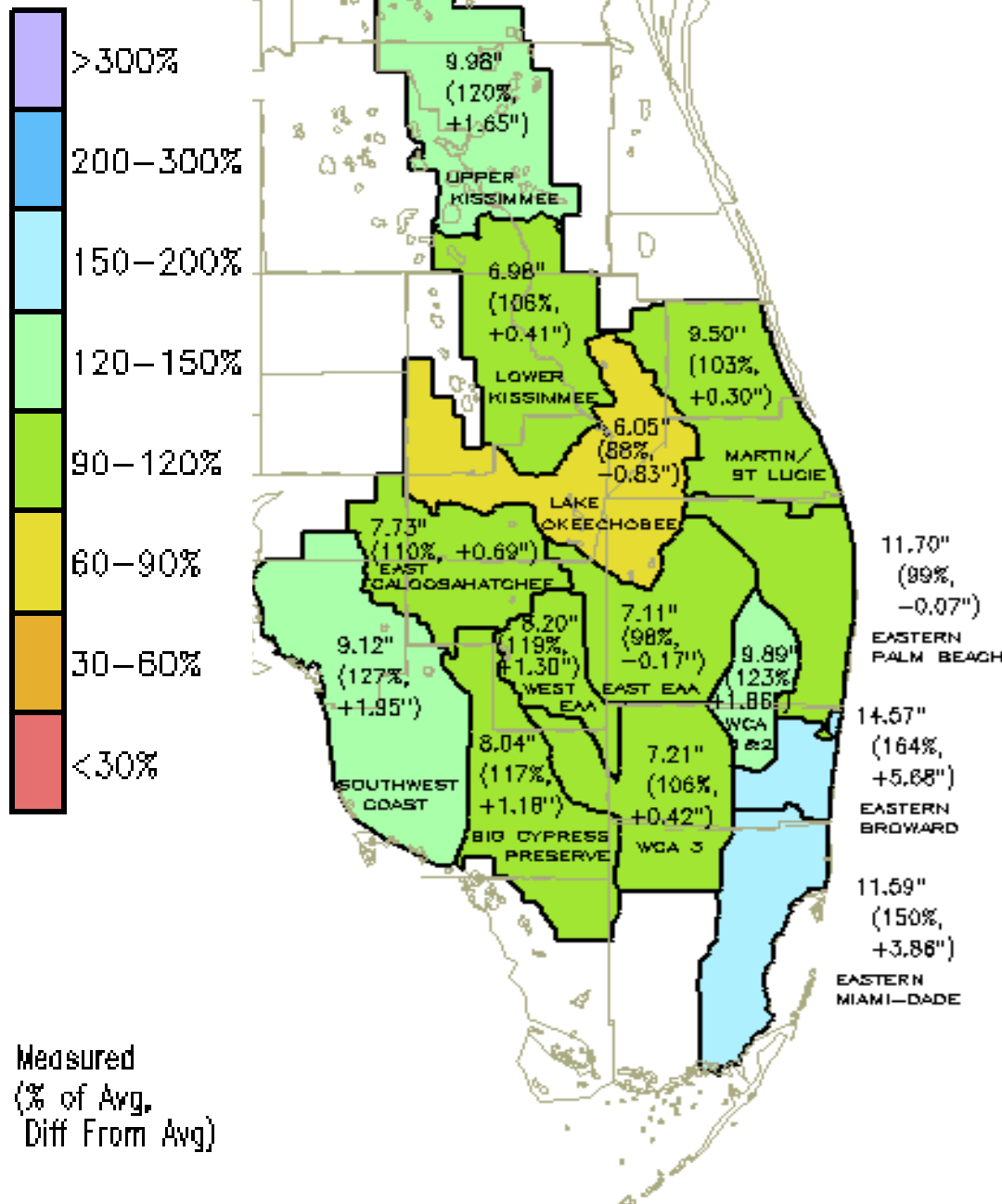
# Water Conditions Summary

*Feb 11, 2010*

*Susan B. Sylvester, Department Director  
Operations Control & Hydro Data Management Department  
South Florida Water Management District*

# SFWMD 2010 Dry Season Rainfall Through Feb 10

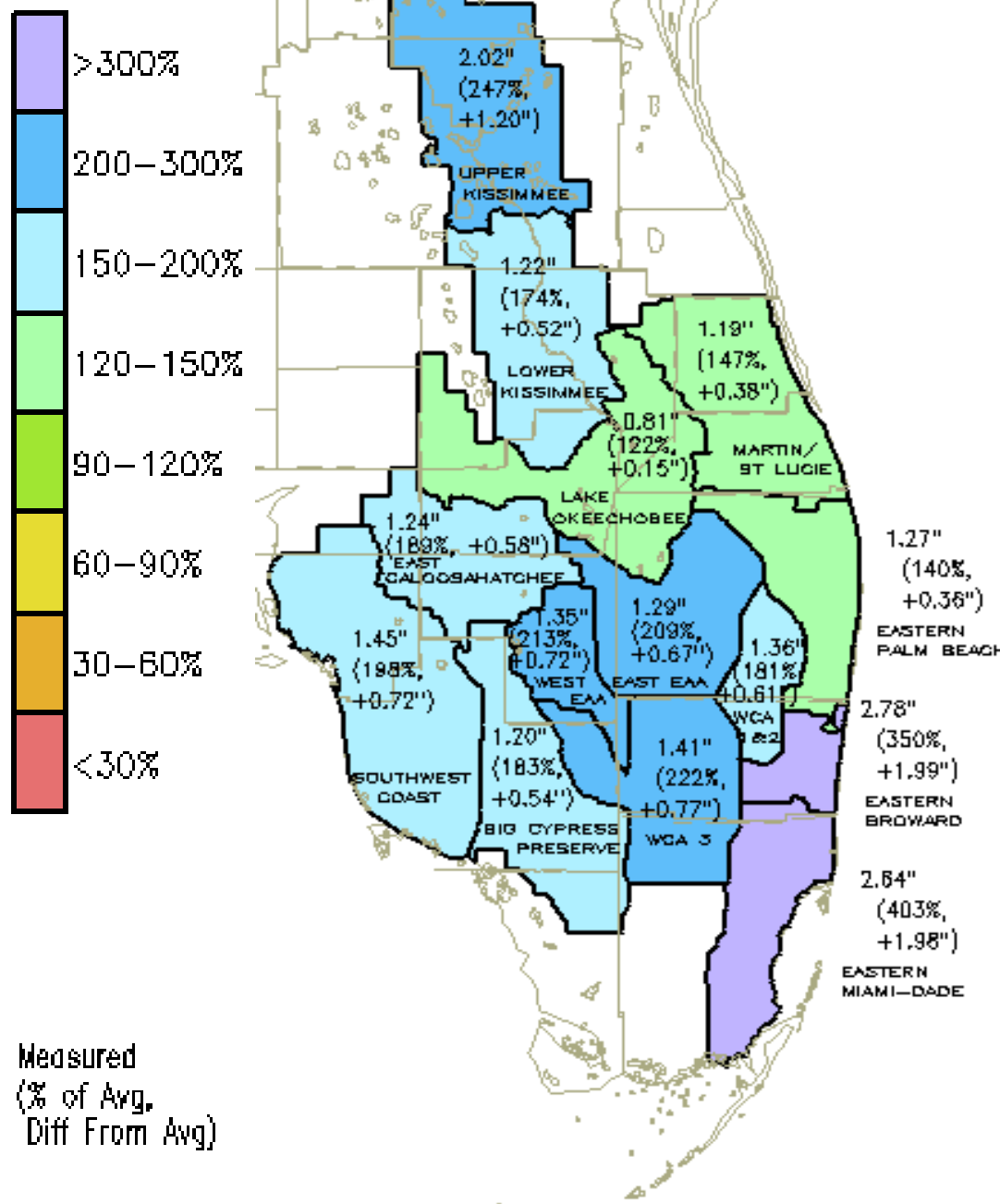
**DISTRICT-WIDE:  
8.62" (113%, + 1.02")**



- *Most basins received nearly normal dry season rainfall*
- *Eastern Broward received 1.6 times normal dry season rainfall*
- *Eastern Miami Dade received 1.5 times normal dry season rainfall*

# SFWMD 2010 February Rainfall Through Feb 10

**DISTRICT-WIDE:  
1.43" (203%, + 0.73")**



- All basins received above normal dry season rainfall
- Eastern Broward received 3.5 times normal dry season rainfall
- Eastern Miami Dade received 2 times normal dry season rainfall



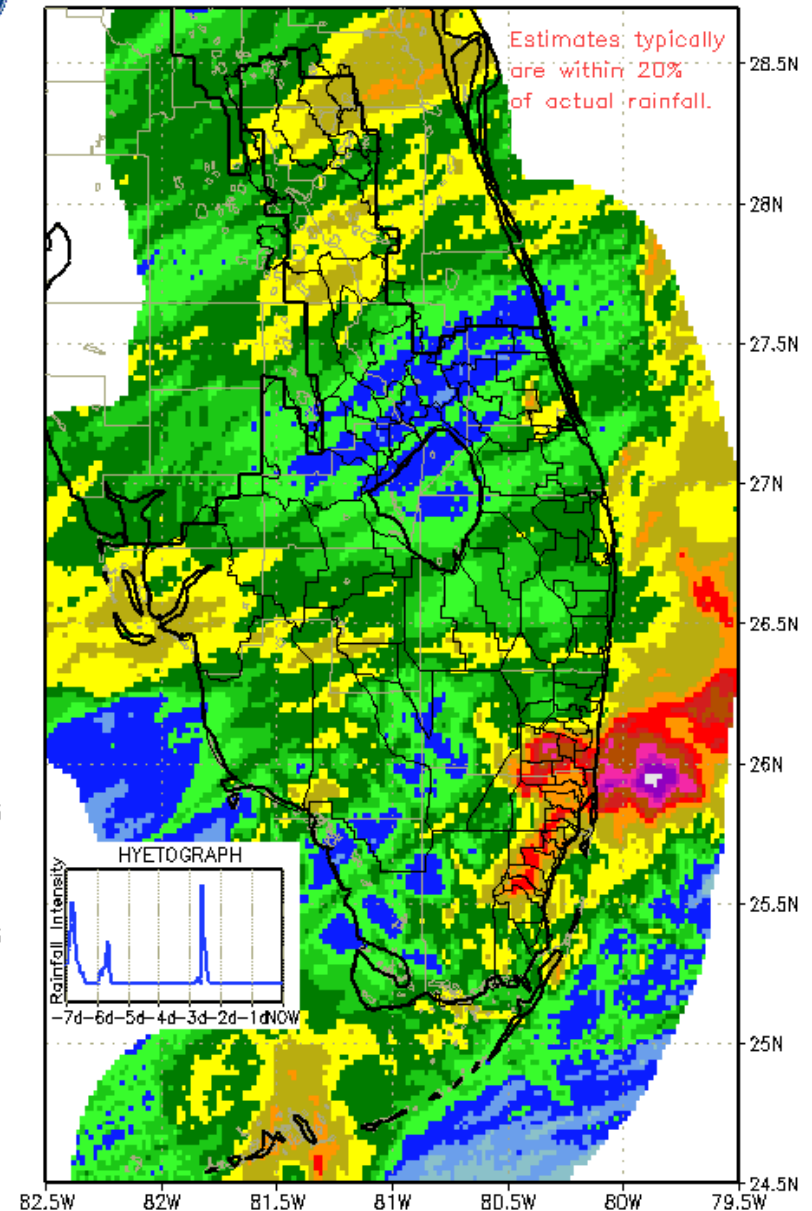
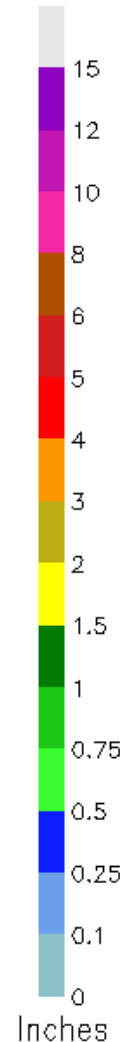


# Rainfall event February 1-3

District received about 1.25"

Heaviest rains:

- Southern Broward Co
- Northern Miami-Dade Co
- Western Caloosahatchee Basin
- Upper Kissimmee Basin



DISTRICT-WIDE RAINFALL ESTIMATE: 1.250"

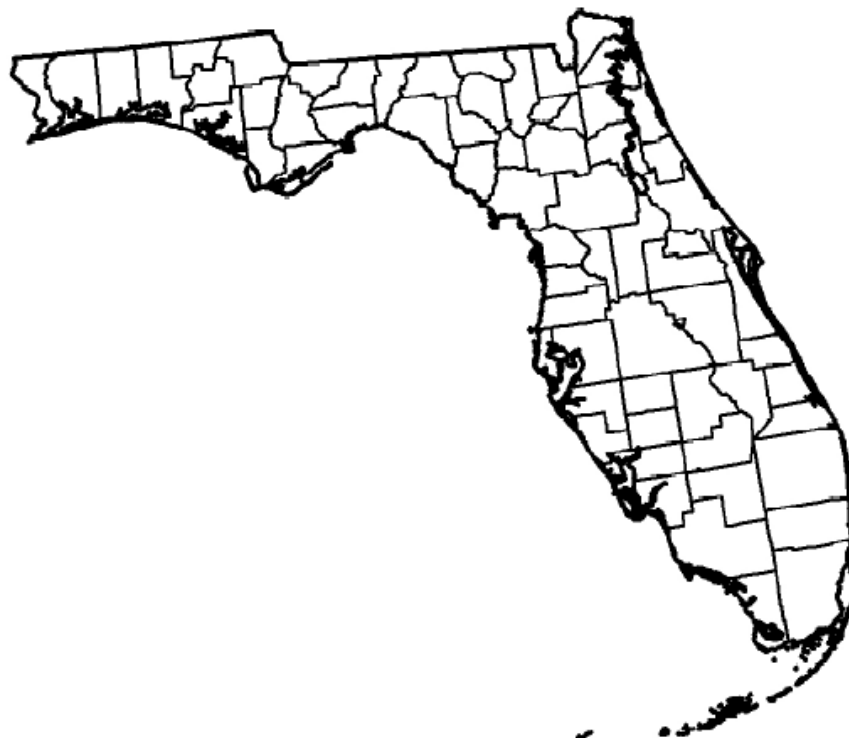
# U.S. Drought Monitor

## Florida


February 2, 2010


Valid 7 a.m. EST


	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	100.0	0.0	0.0	0.0	0.0	0.0
Last Week (01/26/2010 map)	100.0	0.0	0.0	0.0	0.0	0.0
3 Months Ago (11/10/2009 map)	62.4	37.6	0.0	0.0	0.0	0.0
Start of Calendar Year (01/05/2010 map)	97.3	2.7	0.0	0.0	0.0	0.0
Start of Water Year (10/06/2009 map)	100.0	0.0	0.0	0.0	0.0	0.0
One Year Ago (02/03/2009 map)	34.0	66.0	15.7	0.0	0.0	0.0




### Intensity:

 D0 Abnormally Dry

 D1 Drought - Moderate

 D2 Drought - Severe

 D3 Drought - Extreme

 D4 Drought - Exceptional

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

<http://drought.unl.edu/dm>



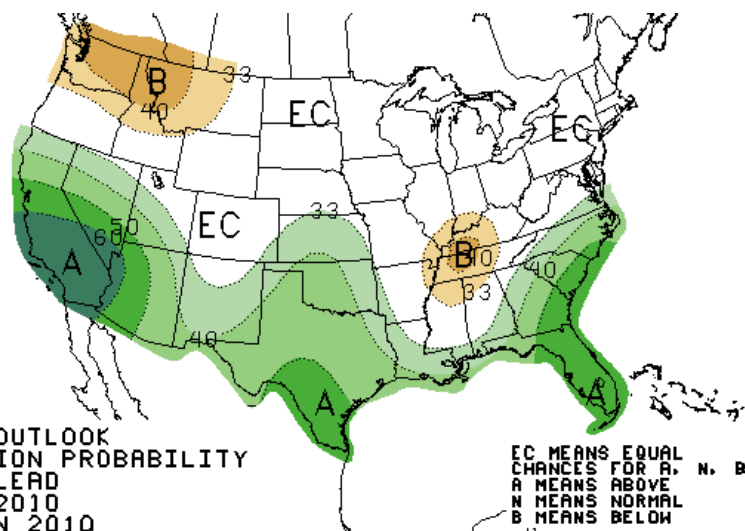
**Released Thursday, February 4, 2010**

Author: M. Rosencrans, CPC/NOAA

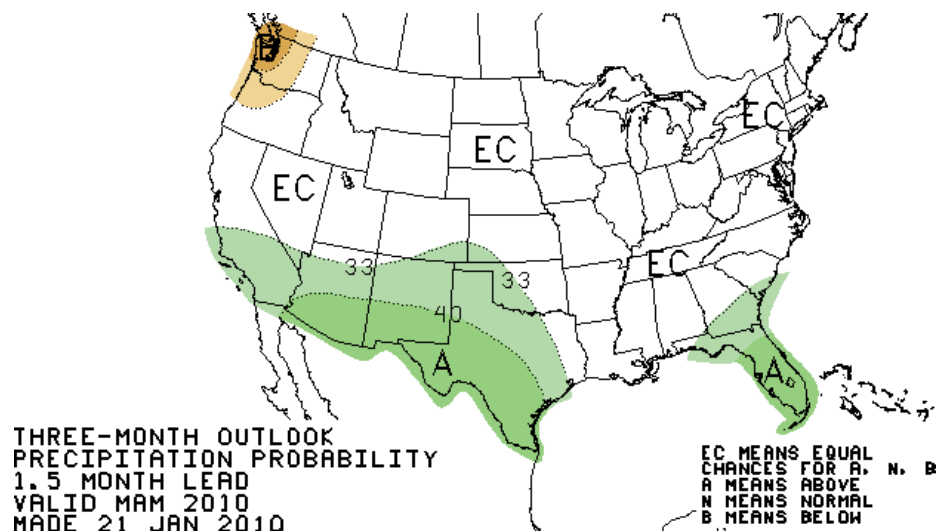
# U. S. Seasonal Precipitation Outlook

National Climate Prediction Center (CPC)

**Feb**



**Mar-May**



- The CPC forecasts moderate-strength El Nino conditions to persist into the 2010 winter. A strong event is unlikely, but El Nino impacts are expected in the next few months. (CPC outlook 21-Jan-2009)
- The outlook for Feb shows an increased chance of above-normal (A) rainfall for central and south Florida (>50%).
- The outlook for Mar-May shows increased chances of above-normal (A) rainfall for central (44%) and south (44%) Florida (same as Jan CPC forecast)  
(Note: If there are no increased chances, the probability of above-normal is 33%)

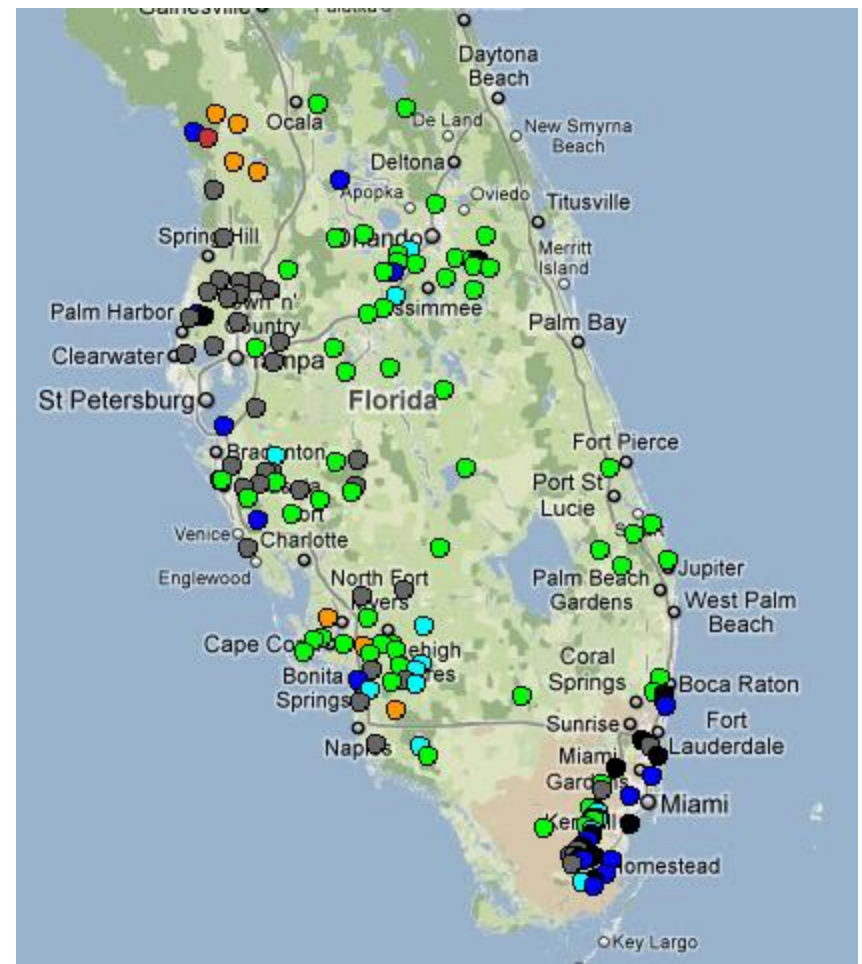
# Groundwater Levels

Most wells along the lower east coast are mostly either above normal or much above normal

Wells in Upper East Coast are in the normal range

Wells in Kissimmee Basin are also in Normal range

Wells along the West Coast are mostly normal with few below or above normal



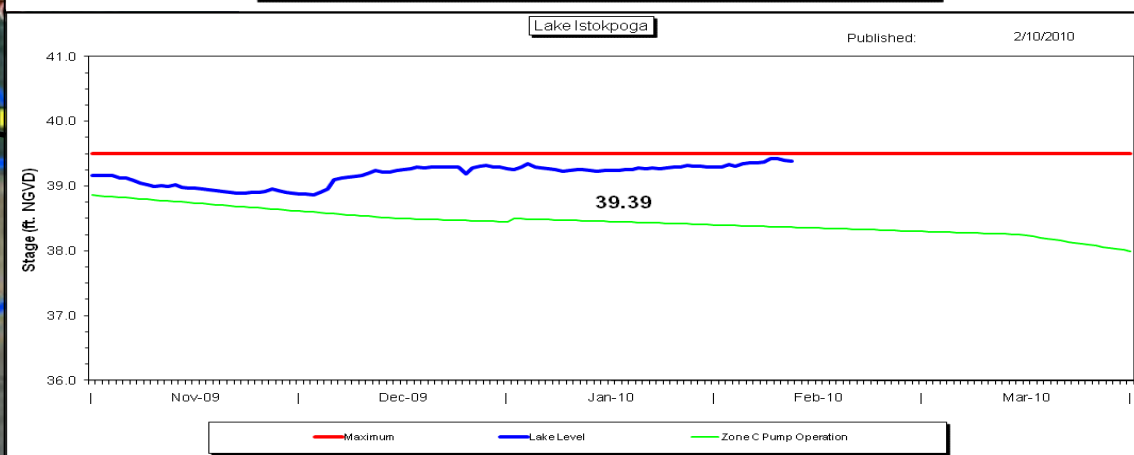
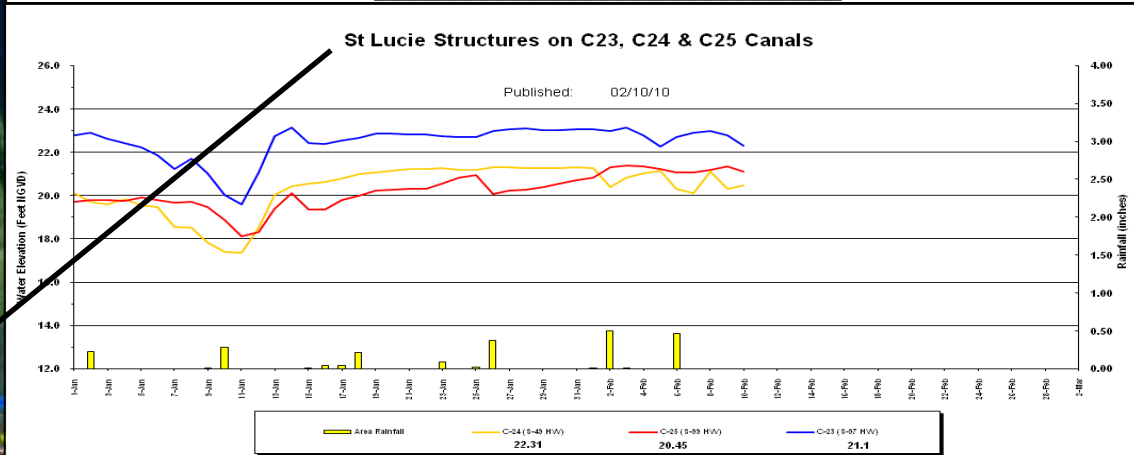
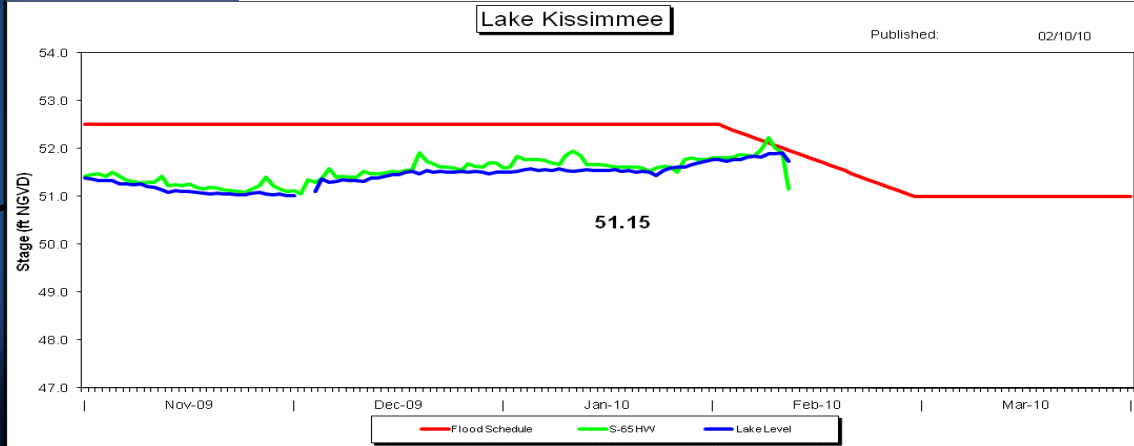
As of February 05, 2010

Explanation - Percentile classes (symbol color based on most recent measurement)							
New Low	<10	10-24	25-75	76-90	>90	New High	Not Ranked
	Much Below Normal	Below Normal	Normal	Above Normal	Much Above Normal		

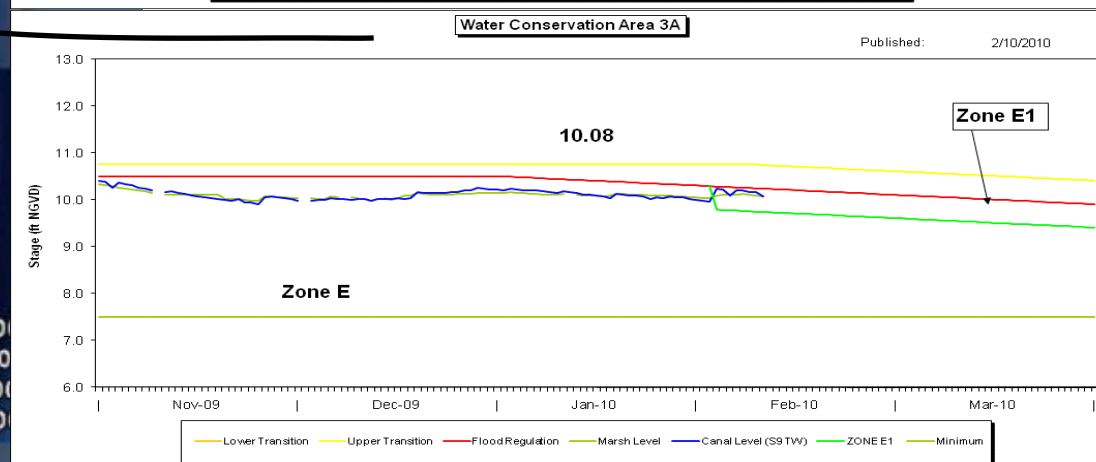
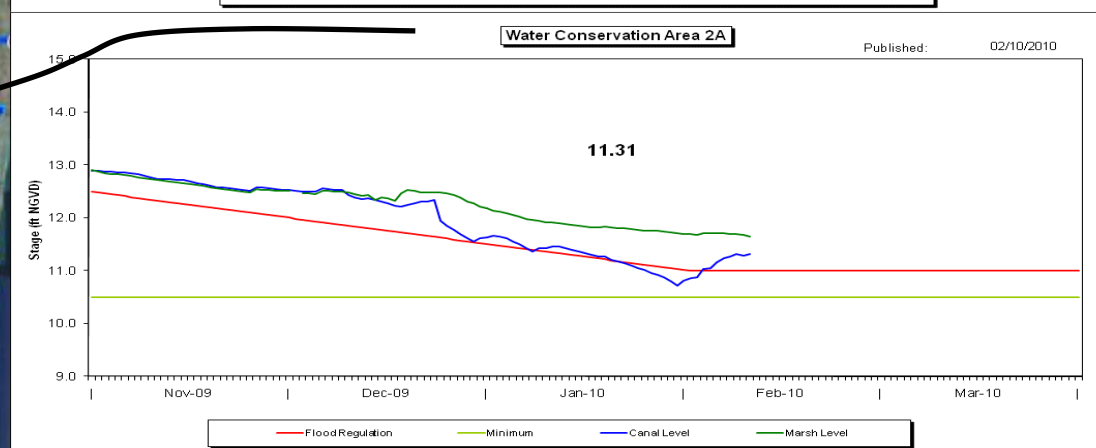
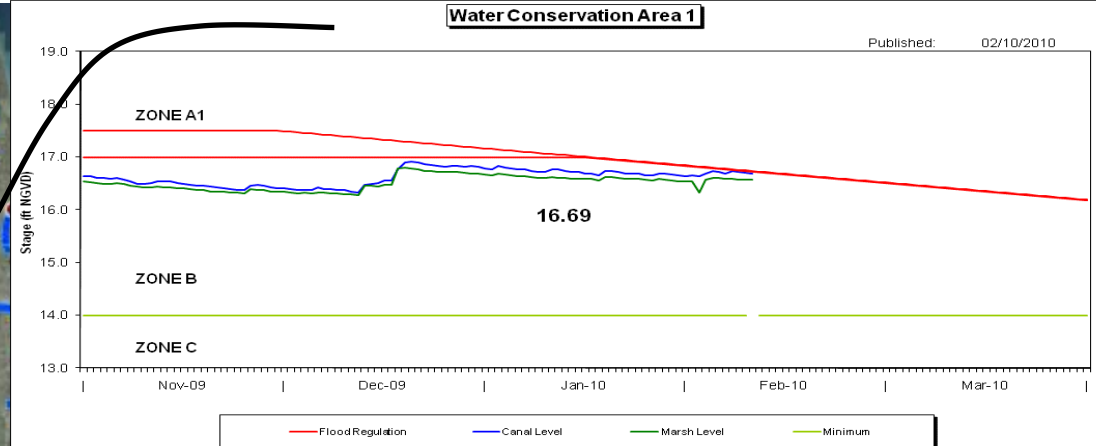
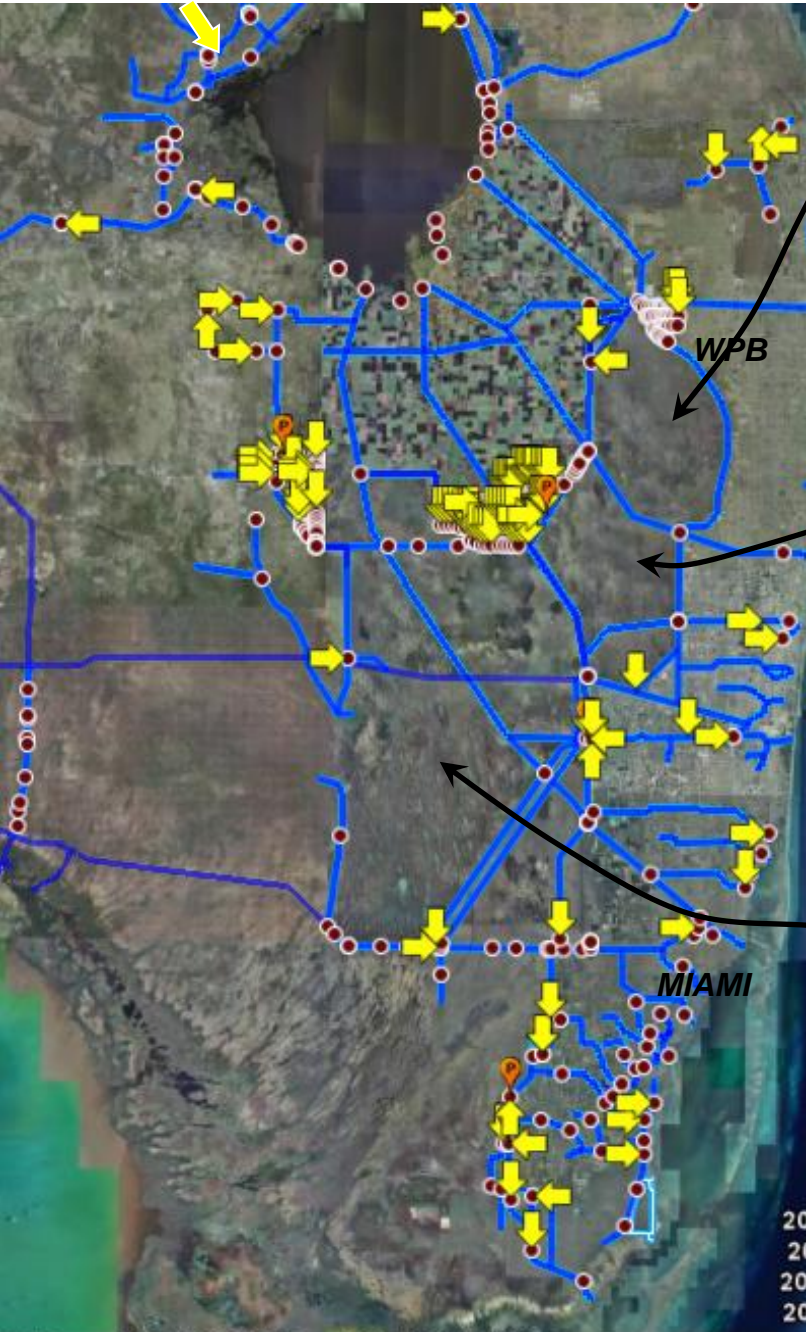


ORLANDO

FT. PIERCE



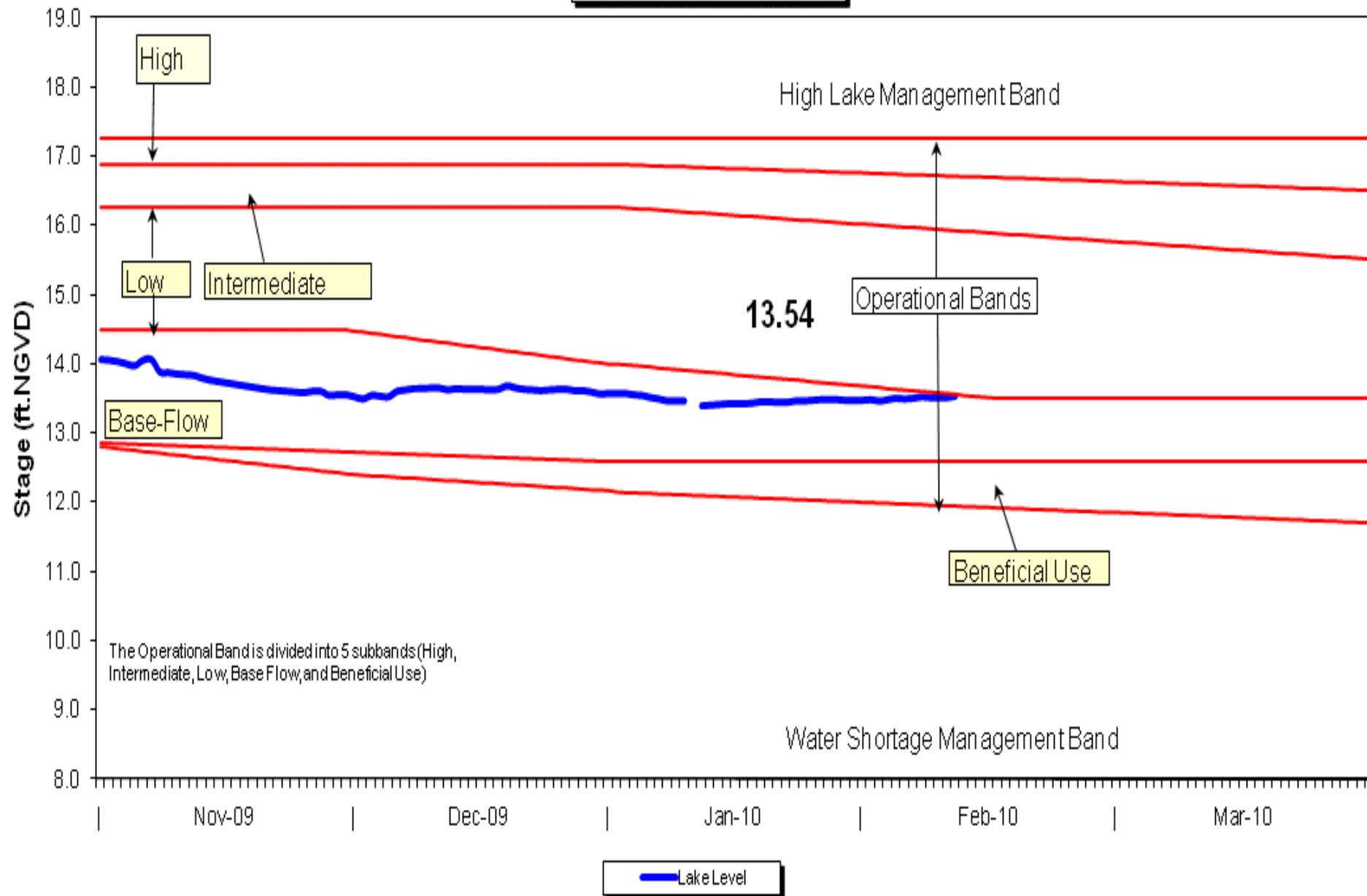




# Lake Okeechobee

Published:

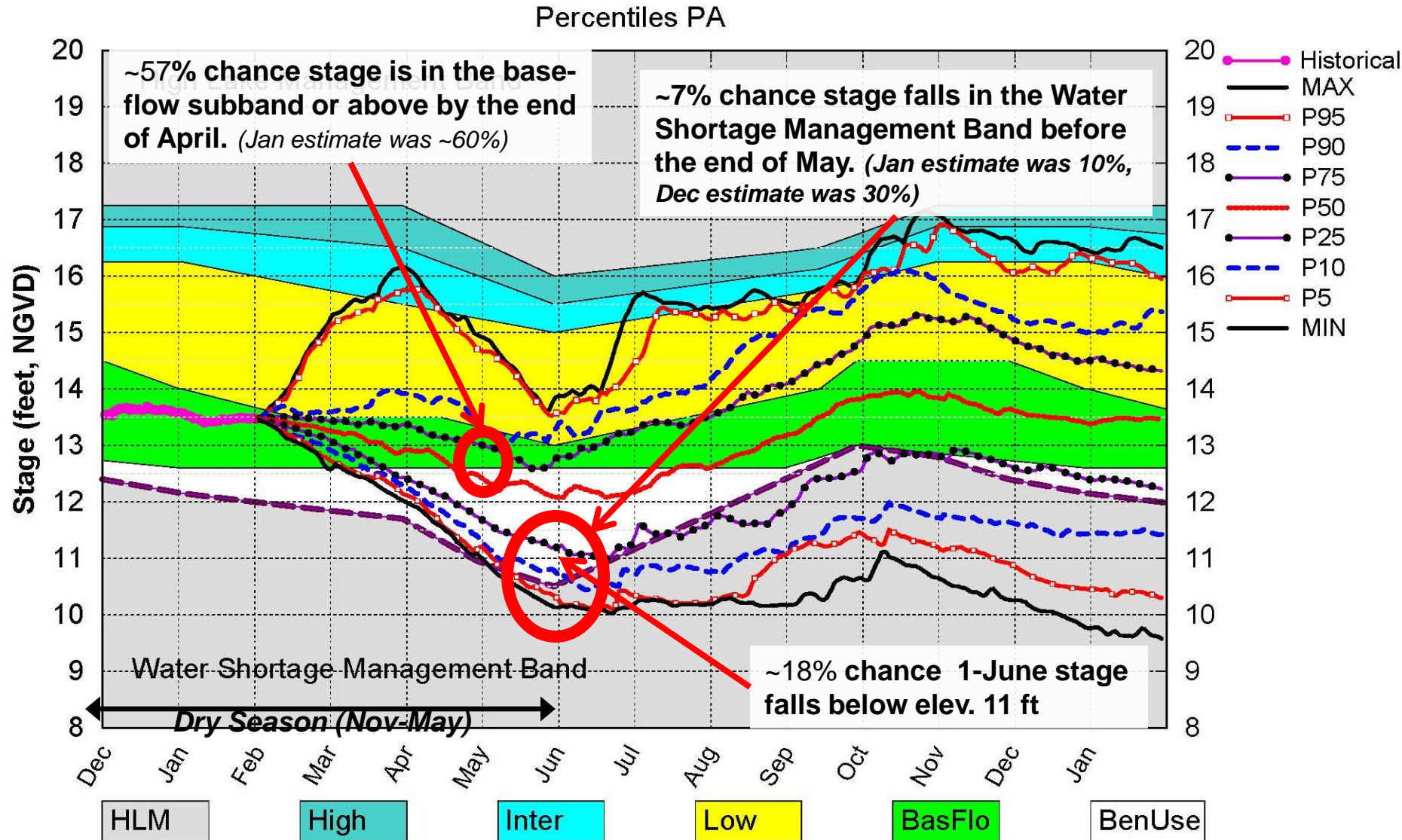
2/10/2010



# Lake Okeechobee Stage Forecast

- **Future Lake stage depends on future rainfall**
- **Projections provided monthly by SFWMD Hydrologic and Environmental Systems Modeling (HESM) Department**
- **Position Analysis**
  - Each year starts with current hydrologic conditions
  - 41 1-yr simulations of system response to historical rainfall conditions
  - Statistical summaries used to display projections

# Lake Okeechobee SFWMM February 2010 Position Analysis

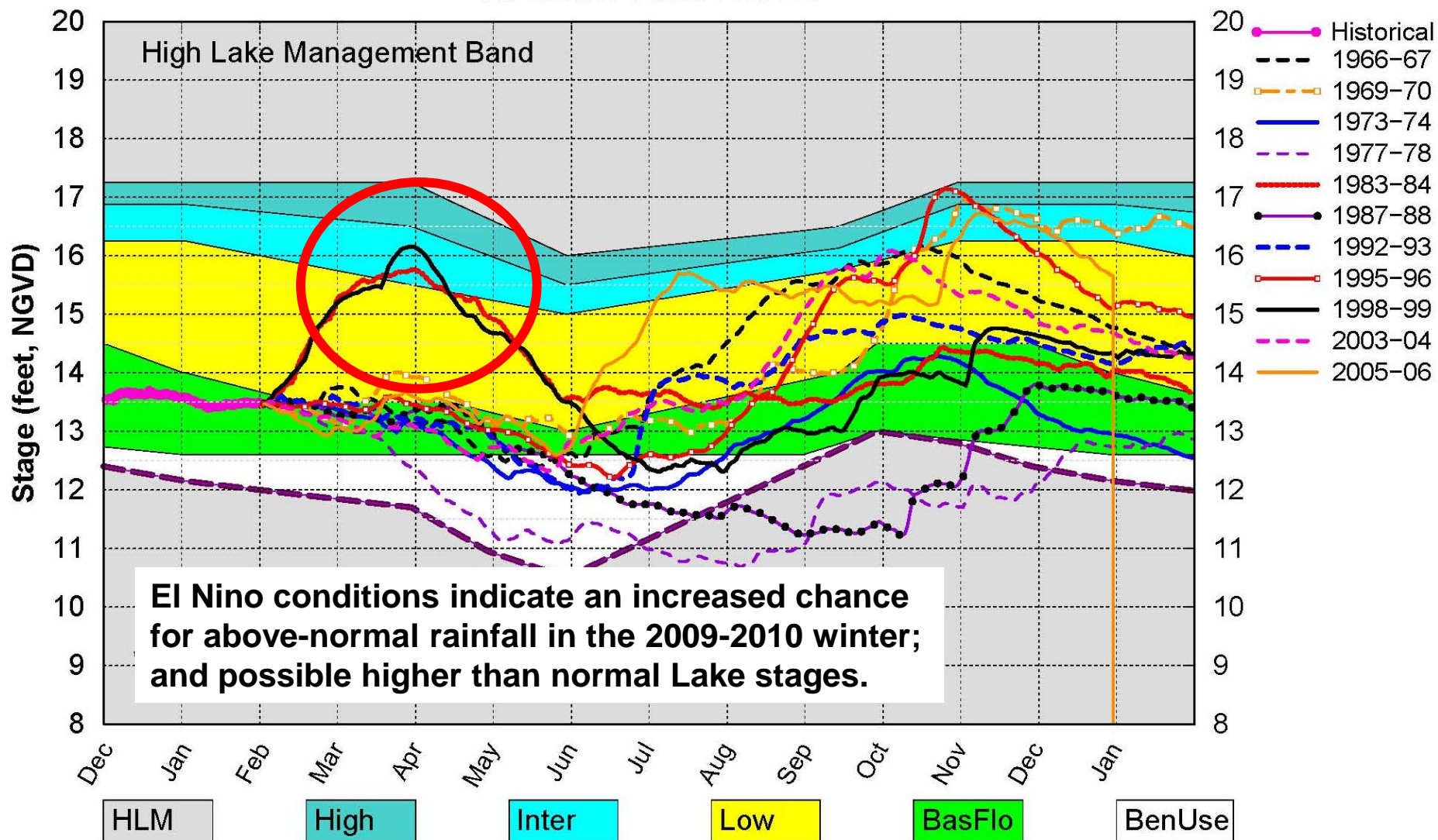


(See assumptions on the Position Analysis Results website)



# Lake Okeechobee SFWMM February 2010 Position Analysis

All El Nino Years Plot PA



(See assumptions on the Position Analysis Results website)

- **District staff proposes to continue recommending to the U.S. Army Corps of Engineers potential releases of up to 450 cfs to the Caloosahatchee Estuary, in the form of a pulse release, based upon:**
  - **Demonstrated need of the ecosystem**
  - **Balancing water supply and flood protection**
  - **Lake stage is in the Base Flow subband of the Lake Okeechobee Regulation Schedule 2008**
- **Redirection of 200 cfs from the St. Lucie to the Caloosahatchee by the USACE for a total of 650 cfs is acceptable at this time**
- **It is also anticipated that the Lake will be in the low subband by next week, which may require increases in release volumes**



A photograph of a pond with numerous green lily pads floating on the surface. The water is a deep blue color. The lily pads are of various sizes and some show signs of aging or damage. The overall scene is a natural, outdoor setting.

# Questions?

